

## ENMAR CYL 540

### PRODUCT DESCRIPTION

**ENMAR CYL 540** is high alkaline cylinder lubricating oil for the lubrication of modern large bore turbocharged crosshead two stroke engines. The oil is blended from highly refined base oils having maximum film strength and modern complex detergent technology additives to provide high performance protection against cylinder scuffing and effective acid neutralizing properties where high sulphur fuels are used.

### APPLICATIONS

- ◆ 40 TBN cylinder oils for all modern high output engines requiring SAE 50 grade and operating on sulphur content up to 0.5%
- ◆ Recommendation from the relevant engine builder must be fully compiled while selecting cylinder oil as expert views on low sulphur fuels are still evolving.

### RECOMMENDATIONS

**ENMAR CYL 540** is recommended for modern low speed crosshead two stroke diesel engines where the cylinder lubrication requires specialized high base number detergent properties to provide resistance to bore polishing and the formation of heavy carbon deposits on the piston crown and ring belt areas. Also, to minimize the build-up of carbon deposits in the combustion chamber and exhaust ports. Their high viscosity and lubricity maintain a strong oil film to reduce cylinder and ring wear and provide piston and ring lubrication under the harsh operating conditions.

### BENEFITS

**ENMAR CYL 540** provides:

- ◆ Extended liner and piston ring life through effective neutralization of acidic combustion products
- ◆ Reduced carbon deposits in the combustion chamber, exhaust ports and cylinder and piston ring areas through the latest complex tri-based detergent technology
- ◆ Minimized scuffing of pistons, ring, and liners
- ◆ Excellent corrosive wear protection

**ENMAR CYL 540** meets performance **MAN B&W** and **WARTSILA** two-stroke engines.

Technical Data *		
ENMAR CYL 540		
SAE Viscosity Grade		50
Density @15°C	g/mL	0.9150
Kinematic Viscosity @ 40°C, ASTM D-445	mm <sup>2</sup> /s	214.0
Kinematic Viscosity @ 100°C, ASTM D-445	mm <sup>2</sup> /s	19.20
Flash point, COC, ASTM D-92	°C	>230
Pour Point, ASTM D-97	°C	-9
Total Base Number ASTM D2896	Mg KOH/g	40

\* The information prepared provides the typical properties that are considered as representative. Some variation which will not affect performance is possible.

 **HEALTH AND SAFETY, ENVIRONMENT**

The information on this product is available in the ENMAR Material Safety Data Sheet (MSDS) as a guide to the precautions and safe handling of this product and its disposal. For further information we recommend you review the MSDS. Handled correctly there are no special precautions suggested.

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